

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)	Docket Number: GP-00102.P.1.1	Application Number: 10/804,645
	Applicant: Giavanni Paternostro	
	Filing Date: March 19, 2004	Group Art Unit: 1646

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
GH	P1	2002/0161302	10/2002	Paternostro			
	P2						

FOREIGN PATENT DOCUMENTS								
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	Translation	
							YES	NO
	F1							

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
EXAMINER INITIALS		CITATION	
GH	D1	Stockwell, Brent. Chemical Genetics: Ligand-Based Discovery of Gene Function. Nature Reviews Genetics 1:116-125 (2000)	
	D2	Fortini, Mark, Skupski, Marian, Boguski, Mark and Hariharan, Iswar. A survey of human disease gene counterparts in the drosophila genome. Journ Cell Bio. 150(2)F23-F29 (2000)	
	D3	Donnelly, David F, Jiang, Chun, and Haddad, Gabriel. Comparative responses of brain stem and hippocampal neurons to O2 deprivation: in vitro intracellular studies. Am J Physiol 262:L549-L554 (1992)	
	D4	Krishnan, Santosh, Sun, Yi-An, Mohsenin, Amir, Wyamn, Robert J., Haddad, Gabriel G. Behavioral and electrophysiologic responses of Drosophila melanogaster to prolonged periods of anoxia. J Insect Physiol 43(3):203-210 (1997)	
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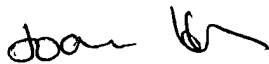
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GH	D5	Haddad, Gabriel G. Enhancing our understanding of the molecular responses to hypoxia in mammals using <i>Drosophila melanogaster</i> . <i>J Appl Physiol</i> 88:1481-1487 (2000)
	D6	Wingrove, Janes, and O'Farrell Patrick H. Nitric oxide contributes to behavioral, cellular, and developmental responses to low oxygen in <i>Drosophila</i> . <i>Cell</i> 98:105-114 (1999)
	D7	Smith, C.J., and Fischer, T.H. 2001. Particulate and vapor phase constituents of cigarette mainstream smoke and risk of myocardial infarction. <i>Atherosclerosis</i> 158:257-267.
	D8	Paternostro, G., Vignola, C., Bartsch, D.U., Omens, J.H., McCulloch, A.D., and Reed, J.C. 2001. Age-associated cardiac dysfunction in <i>Drosophila melanogaster</i> . <i>Circulation Research</i> 88:1053-1058.
	D9	Gray, I.C., Campbell, D.A., and Spurr, N.K. 2000. Single nucleotide polymorphisms as tools in human genetics. <i>Hum Mol Genet</i> 9:2403-2408
	D10	Adams, M.D., Celniker, S.E., Holt, R.A., Evans, C.A., Gocayne, J.D., Amanatides, P.G., Scherer, S.E., Li, P.W., Hoskins, R.A., Galle, R.F., et al. 2000. The genome sequence of <i>Drosophila melanogaster</i> . <i>Science</i> 287:2185-2195
	D11	Bodmer, R., and Venkatesh, T.V. 1998. Heart development in <i>Drosophila</i> and vertebrates: conservation of molecular mechanisms. <i>Developmental Genetics</i> 22:181-186
	D12	Lints, T.J., Parsons, L.M., Hartley, L., Lyons, I., and Harvey, R.P. 1993. Nkx-2.5: a novel murine homeobox gene expressed in early heart progenitor cells and their myogenic descendants. <i>Development</i> 119:419-431
	D13	Komuro, I., and Izumo, S. 1993. Csx: a murine homeobox-containing gene specifically expressed in the developing heart. <i>Proceedings of the National Academy of Sciences of the United States of America</i> 90:8145-8149

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	D15	Warmke, J.W., and Ganetzky, B. 1994. A family of potassium channel genes related to eag in Drosophila and mammals. <i>Proc Natl Acad Sci U S A</i> 91:3438-3442
	D16	Min, K.T., and Benzer, S. 1999. Preventing neurodegeneration in the Drosophila mutant bubblegum. <i>Science</i> 284:1985-1988
	D17	Kazemi-Esfarjani, P., and Benzer, S. 2000. Genetic suppression of polyglutamine toxicity in Drosophila. <i>Science</i> 287:1837-1840
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	D19	Lin, Y.J., Seroude, L., and Benzer, S. 1998. Extended life-span and stress resistance in the Drosophila mutant methuselah. <i>Science</i> 282:943-946
GH	D20	Lakatta, E.G. 2001. Heart aging: a fly in the ointment? <i>Circulation Research</i> 88:984-986
	D21	Fleg, J.L., O'Connor, F., Gerstenblith, G., Becker, L.C., Clulow, J., Schulman, S.P., and Lakatta, E.G. 1995. Impact of age on the cardiovascular response to dynamic upright exercise in healthy men and women. <i>Journal of Applied Physiology</i> 78:890-900
	D22	Piacentini, L., and Karliner, J.S. 1999. Altered gene expression during hypoxia and reoxygenation of the heart. <i>Pharmacol Ther</i> 83:21-37
↓	D23	Weiss, J., and Hiltbrand, B. 1985. Functional compartmentation of glycolytic versus oxidative metabolism in isolated rabbit heart. <i>J Clin Invest</i> 75:436-447

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QH	D24	Cross, H.R., Radda, G.K., and Clarke, K. 1995. The role of Na ⁺ /K ⁺ ATPase activity during low flow ischemia in preventing myocardial injury: a ³¹ P, ²³ Na and ⁸⁷ Rb NMR spectroscopic study. <i>Magn Reson Med</i> 34:673-685
	D25	Jennings, R.B., Reimer, K.A., and Steenbergen, C. 1986. Myocardial ischemia revisited. The osmolar load, membrane damage, and reperfusion. <i>J Mol Cell Cardiol</i> 18:769-780
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	D27	Ambrosio, G., Weisfeldt, M.L., Jacobus, W.E., and Flaherty, J.T. 1987. Evidence for a reversible oxygen radical-mediated component of reperfusion injury: reduction by recombinant human superoxide dismutase administered at the time of reflow. <i>Circulation</i> 75:282-291
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	D29	Kloner, R.A., Przyklenk, K., and Whittaker, P. 1989. Deleterious effects of oxygen radicals in ischemia/reperfusion. Resolved and unresolved issues. <i>Circulation</i> 80:1115-1127
	D30	Gottlieb, R.A., Burleson, K.O., Kloner, R.A., Babior, B.M., and Engler, R.L. 1994. Reperfusion injury induces apoptosis in rabbit cardiomyocytes. <i>J-Clin-Invest</i> 94:1621-1628
✓	D31	Fliss, H., and Gattinger, D. 1996. Apoptosis in ischemic and reperfused rat myocardium. <i>Circulation Research</i> 79:949-956

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	D33	Chen, M., He, H., Zhan, S., Krajewski, S., Reed, J.C., and Gottlieb, R.A. 2001. Bid is cleaved by calpain to an active fragment in vitro and during myocardial ischemia/reperfusion. <i>J Biol Chem</i> 276:30724-30728
	D34	Webster, K.A., Discher, D.J., Kaiser, S., Hernandez, O., Sato, B., and Bishopric, N.H. 1999. Hypoxia-activated apoptosis of cardiac myocytes requires reoxygenation or a pH shift and is independent of p53. <i>J Clin Invest</i> 104:239-252
	D35	Kang, P.M., Haunstetter, A., Aoki, H., Usheva, A., and Izumo, S. 2000. Morphological and molecular characterization of adult cardiomyocyte apoptosis during hypoxia and reoxygenation. <i>Circ Res</i> 87:118-125
	D36	Law, M.R., Morris, J.K., and Wald, N.J. 1997. Environmental tobacco smoke exposure and ischaemic heart disease: an evaluation of the evidence. <i>Bmj</i> 315:973-980
	D37	Headrick, J.P. 1998. Aging impairs functional, metabolic and ionic recovery from ischemia-reperfusion and hypoxia-reoxygenation. <i>J Mol Cell Cardiol</i> 30:1415-1430
	D38	Bak, M.I., Wei, J.Y., and Ingwall, J.S. 1998. Interaction of hypoxia and aging in the heart: analysis of high energy phosphate content. <i>J Mol Cell Cardiol</i> 30:661-672
h	D39	Lesnefsky, E.J., Moghaddas, S., Tandler, B., Kerner, J., and Hoppel, C.L. 2001. Mitochondrial dysfunction in cardiac disease: ischemia--reperfusion, aging, and heart failure. <i>J Mol Cell Cardiol</i> 33:1065-1089

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	D41	Bacon, N.C., Wappner, P., O'Rourke, J.F., Bartlett, S.M., Shilo, B., Pugh, C.W., and Ratcliffe, P.J. 1998. Regulation of the Drosophila bHLH-PAS protein Sima by hypoxia: functional evidence for homology with mammalian HIF-1 alpha. <i>Biochem Biophys Res Commun</i> 249:811-816
	D42	Bruick, R.K., and McKnight, S.L. 2001. A conserved family of prolyl-4-hydroxylases that modify HIF. <i>Science</i> 294:1337-1340
	D43	O'Farrell, P.H. 2001. Conserved responses to oxygen deprivation. <i>J Clin Invest</i> 107:671-674
	D44	Haddad, G.G., Sun, Y., Wyman, R.J., and Xu, T. 1997. Genetic basis of tolerance to O2 deprivation in Drosophila melanogaster. <i>Proc Natl Acad Sci U S A</i> 94:10809-10812
	D45	Ma, E., Gu, X.Q., Wu, X., Xu, T., and Haddad, G.G. 2001. Mutation in pre-mRNA adenosine deaminase markedly attenuates neuronal tolerance to O2 deprivation in Drosophila melanogaster. <i>J Clin Invest</i> 107:685-693
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JH	D48	White, K., Grether, M.E., Abrams, J.M., Young, L., Farrell, K., and Steller, H. 1994. Genetic control of programmed cell death in Drosophila. <i>Science</i> 264:677-683
↓	D49	Artavanis-Tsakonas, S., Muskavitch, M.A., and Yedvobnick, B. 1983. Molecular cloning of Notch, a locus affecting neurogenesis in Drosophila melanogaster. <i>Proc Natl Acad Sci U S A</i> 80:1977-1981

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	D51	Spradling, A.C., Stern, D., Beaton, A., Rhem, E.J., Lavery, T., Mozden, N., Misra, S., and Rubin, G.M. 1999. The Berkeley <i>Drosophila</i> Genome Project gene disruption project: Single P-element insertions mutating 25% of vital <i>Drosophila</i> genes. <i>Genetics</i> 153:135-177
	D52	Greenspan, R.J. 2001. The flexible genome. <i>Nat Rev Genet</i> 2:383-387
↓	D53	Miquel, J., Lundgren, P.R., Bensch, K.G., and Atlan, H. 1976. Effects of temperature on the life span, vitality and fine structure of <i>Drosophila melanogaster</i> . <i>Mechanisms of Ageing & Development</i> 5:347-370
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